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APPLICANT: Wilfred H. Nelson et al.

GROUP: 1641

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EXAMINER: J. Hines  
TECH CENTER 1600/2900

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FOR: DIRECT DETECTION OF BACTERIA-ANTIBODY  
COMPLEXES VIA UV RESONANCE RAMAN  
SPECTROSCOPY

Assistant Commissioner of Patents  
Washington, D.C. 20231

Sir:

AMENDMENT

In the Claims:

Please amend the following claims:

- 1 9. (Twice Amended) A method for [the] detecting the presence of a specific
- 2 microorganism in a sample, said microorganism having a characteristic resonance enhanced
- 3 Raman backscattered energy spectrum produced by irradiating nucleic acids in said
- 4 microorganisms at a wavelength between 242-257 nm, comprising:
- 5 (a) contacting said sample with a medium comprising solid phase
- 6 immobilized antibodies which specifically bind to a characteristic cell surface antigen on said
- 7 microorganism to form an antigen-antibody complex, thereby immobilizing said
- 8 microorganism on said solid phase;
- 9 (b) irradiating the solid phase of step (a) with a laser light of 242-257 nm to
- 10 produce a resonance enhanced Raman backscattered energy, said antibodies emitting essentially